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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,276	09/29/2003	Raj L. Bandekar	I20 04996 US	5049

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EXAMINER

DALEY, CHRISTOPHER ANTHONY

ART UNIT	PAPER NUMBER
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2111

DATE MAILED: 10/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/675,276	Applicant(s) BANDEKAR ET AL.	
	Examiner Christopher A. Daley	Art Unit 2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-30 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-9,11-19,21-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Christensen et al (US6618745) hereinafter Christensen.

4. As to claims 1,11, and 21 Christensen discloses A method, computer readable medium, and system of providing a connection between a first device and a second device, said method comprising: establishing said connection between said first device and said second device (Figure 1 illustrates a system comprising a controller 18 and

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filed devices 22 – 26 connected via bus 30 and linking device 28, COL. 2, line 67 – COL. 3, line 5);

storing in a third device a first plurality data elements necessary for re-establishing said connection (Link device 28 comprises said information for re-establishing said connection, COL. 7, lines 25 – 30) ; receiving a second data element when said second device is reinitialized (When there are any changes in the communication of said second device, the link devices manages said information, COL. 7, lines 25 – 30); and reestablishing said connection by modifying at least one parameter value in each of said first device and said second device based on said first plurality of data elements and said second data element (The execution times (changing parameter) of the different field devices attached to bus 30 of Figure 1 is stored in the linking device 28, COL. 7, line 63 – COL. 8, line 5).

5. As to claims 2,12, and 22 Christensen discloses The method, medium, and system wherein said second device contains a plurality of objects providing said connection, wherein said second data element comprises an index indicating a memory location where one of said plurality of objects is stored (Figure 2 illustrates the detailed components of a field bus device. Said function blocks comprises said index where plurality of objects are stored, by field bus protocol, COL. 6, lines 50 – 55).

6. As to claims 3,13, and 23 Christensen discloses The method, medium, and system wherein said plurality of objects comprises a link object and a virtual

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communication relationship (VCR) object, wherein said link object provides a link between said VCR object and a location storing an application data exchanged between said first device and said second device,
and said VCR object provides a link to another VCR object in said first device (Said information is specified , COL. 6, lines 55 – 65).

7. As to claims 4,14, and 24, Christensen discloses The method, medium, and system wherein said second device comprises a publisher and said first device comprises a subscriber, said first device and said second device being contained in a control system, said second device containing a second function block to generate said application data and said first device containing a first function block to receive said application data, and wherein said index specifies a memory location where said second function block is located after said second device is initialized (Said limitation covered, COL. 9, lines 23 – 35).

8. As to claims 5,15, and 25 Christensen discloses the method, medium, and system wherein said reestablishing comprises modifying a local index field in said link object according to said index (Said information is sent to the link device by the field device, COL. 9, lines 53 – 63).

9. As to claims 6, 16, and 26, Christensen discloses The method, medium, and system wherein said third device comprises a supervisory control station, said method

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further comprising maintaining a copy of said link object in said supervisory control station, wherein said modifying comprises changing said local index field in said copy and downloading said copy to said second device (Link device 28 is illustrated in detail in Figure 5. Said information is downloaded in field device manager 114, COL. 13, lines 44 – 47).

10. As to claims 7,17, and 27, Christensen discloses The method, medium, and system further comprises maintaining in said supervisory control station a catalogue of connections from/to each of said function blocks, wherein said copy is identified according to said catalogue (The connection manager of the link device of Figure 5 performs said function, COL> 13, lines 31 – 43).

11. As to claims 8,18, and 28 Christensen discloses The method, medium, and system further comprising modifying a remote index field in a link object contained in said first device (Figure 2 illustrates controller 18, which comprises algorithms to respond to modifications, COL. 5, lines 1 – 15).

12. As to claims 9,19, and 29, Christensen discloses The method, medium, and system wherein said second device comprises a subscriber and said first device comprises a publisher, said first device and said second device being contained in a control system, said second device containing a second function block to receive said application data, and wherein said index specifies a memory location where said

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second function block is located after said second device is reinitialized (Figure 2 illustrates a control system, comprising a first device controller 18, and a second device field device 22. Said IDs are also specified, COL. 5, line 55 – COL. 6, line 5)

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. Claims 10,20, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christensen in view of Christensen et al (US2002/0083364) hereinafter Christensen2.

15. As to claims 10,20, and 30 Christensen does not disclose the method, medium, and system wherein said device comprises a replaced unit.

However, Christensen2 teaches of a field device, which serves as a replacement device to replace a disabled device as illustrated in Figure 1 with bus 34 having a redundant tree to replace disabled devices, page 3, paragraph 0027 – page 4, paragraph 0030). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the replacement device of Christensen2 in the system of Christensen as Christensen2 allows for the smooth transition to a backup system, when a device becomes disabled, page 1, paragraph 0008. One of ordinary skill in the

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art would have been motivated to use the back up system of Christensen 2 in the system of Christensen to allow for the smooth transition to a backup system, when a device becomes disabled, page 1, paragraph 0008.

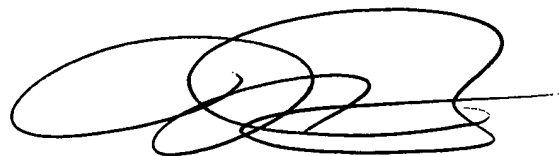
Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Daley whose telephone number is 571 272 3625. The examiner can normally be reached on 9 am. - 4p m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571 272 3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CAD
9/28/2006



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